## What is claimed is:

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- 1. A communication apparatus for playing sound signals, comprising a cellular phone and a wireless earphone, the cellular phone comprising:
  - a music playing module used to output music data;
  - a first sound processing module used to encode the music data and output digital data;
    - a first Bluetooth module used to transmit the digital data; and
  - a mobile communication control module used to transmit/receive radio signals and control the music playing module; and
- the wireless earphone comprising:
  - a second Bluetooth module used to receive the digital data from the first Bluetooth module;
  - a second sound processing module used to decode the digital data; and
  - an output unit used to output digital data decoded by the second sound processing module.
  - 2. The apparatus as claimed in the claim 1, wherein the music playing module is a radio circuit.
  - 3. The apparatus as claimed in the claim 1, wherein the music playing module comprises:
    - a memory used to store a music file; and an MP3 processing module used to play the music file.
  - 4. The apparatus as claimed in the claim 1, wherein the output unit comprises a left channel speaker and a right channel speaker.

- 5. The apparatus as claimed in the claim 4, wherein the left or the right channel speaker is independently disposed in another housing via an extended line.
- 6. The apparatus as claimed in the claim 5, wherein the extended line is detachable.
- 7. A communication method for playing sound signals, comprising:

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providing a cellular phone equipped with a first Bluetooth module; encoding music data played by the cellular phone according to a Bluetooth protocol to form digital data and radioing the digital data via the first Bluetooth module of the cellular phone;

receiving the digital data via a wireless earphone equipped with a second Bluetooth module and decoding the digital data; and outputting the decoded digital data via the wireless earphone.

- 8. The method as claimed in the claim 7, wherein the music data are in an MP3 format.
- 9. The method as claimed in the claim 7, wherein the music data are signals received by a radio.
- 10. The method as claimed in the claim 7, wherein the wireless earphone outputs the decoded digital data via two sound channels.
- 20 11. A cellular phone for transmitting sound signals, comprising:
  - a music playing module used to output music data;
  - a sound processing module used to encode the music data and output digital data;
    - a Bluetooth module used to transmit the digital data; and

- a mobile communication control module used to transmit/receive radio signals and control the music playing module.
- 12. The cellular phone as claimed in the claim 11, wherein the music playing module is a radio circuit.
- 5 13. The cellular phone as claimed in the claim 11, wherein the music playing module comprises:
  - a memory used to store a music file; and an MP3 processing module used to play the music file.
  - 14. A wireless earphone for receiving sound signals, comprising:
    - a Bluetooth module used to receive digital data;

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- a sound processing module used to decode the digital data;
- an output unit used to output digital data decoded by the sound processing module; and
- a microprocessor used to determine a format of the digital data and then send the digital data to the sound processing module directly or to the output unit after processing the digital data according to a determined result.
- 15. The wireless earphone as claimed in the claim 14, wherein the output unit comprises a left channel speaker and a right channel speaker.
- 20 16. The wireless earphone as claimed in the claim 15, wherein the left or right channel speaker is independently disposed in another housing via an extended line.
  - 17. The wireless earphone as claimed in the claim 16, wherein the extended line is detachable.

18. The wireless earphone as claimed in the claim 14, further comprising a microphone, the microprocessor outputting voice signals received from the microphone via the Bluetooth module.